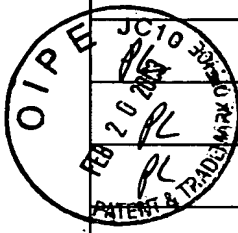


FORM PTO 1449 (modified)	Atty. Docket No. X-13168	Serial No 09/833647
INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Applicants Alborn, et al.	
	Filing Date April 18, 2001	Group 1623


U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date If Appropriate
	AA	4,395,399	7/26/83	Ovchinnikov, et al.			11/1/78
	AB	5,506,204	4/9/96	Aston			11/19/92
	AC	5,141,674	8/25/92	Leigh			06/24/91
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub-class	Translation	
							yes	no
	BA							
	BB							
	BC							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

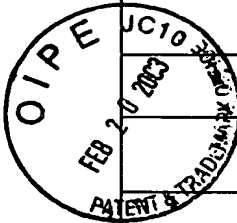
	CA		C. Merseer, et al., "Synthesis of the Repeating Disaccharide Unit of the Glycan Moiety of the Bacterial Cell Wall Peptidoglycan" <u>Tetrahedron Lett.</u> , No. 13, pp. 1029-1032 (1973)
	CB		P.L. Durette, et al., "Synthesis of O-(2-acetamido-2-deoxy-β-D-glucosyl)-(1→4)-N-acetylmuramoyl-L-alanyl-D-isoglutamine, the repeating disaccharide-dipeptide unit of the bacterial cell-wall peptidoglycan", <u>Carbohydr. Res.</u> , Vol. 77 pp. C1-C4 (1979)
	CC		S. Kusumoto, et al., "Chemical Synthesis and Biological Activities of Two Disaccharide Dipeptides Corresponding to the Repeating Units of Bacterial Peptidoglycan", <u>Bull. Chem. Soc. Jpn.</u> , Vol. 59, pp. 1411-1417 (1986)
	CD		S. Kusumoto, et al., "Synthesis of β(1-4)-Linked Disaccharides of N-Acetylglucosamine and N-Acetylmuramic Acid by Their Direct Condensation" <u>Bull. Chem. Soc. Jpn.</u> , Vol. 59, pp. 1419-1423 (1986)
	CE		J. Farkas, et al., "The Synthesis of O-(2-Acetamido-2-Deoxy-β-D-Glucopyranosyl)-(1→4)-N-Acetylnormuramoyl-L-α-Aminobutanoyl-D-Isoglutamine", <u>Carbohydr. Res.</u> , Vol. 163, pp. 63-72 (1987)

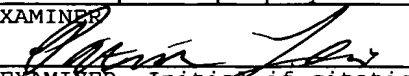
EXAMINER

DATE CONSIDERED

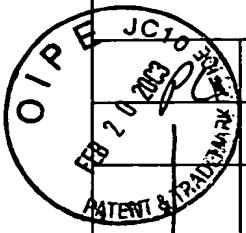
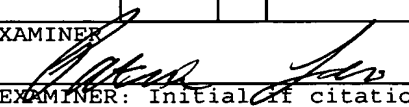
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

FORM PTO 1449 (modified)		Atty. Docket No. X-13168	Serial No 09/833647
INFORMATION DISCLOSURE CITATION IN AN APPLICATION		Applicant Alborn, et al.	
		Filing Date April 18, 2001	Group 1623

 PL ↓ PL ↓ PL ↓ PL	CF	W. Kinzy, et al., "Muraminsaure als Glycosyldonor und -akzeptor", <u>Liebigs Ann. Chem.</u> , pp. 407-415 (1987)
	CG	A. Termin, et al., "6-O-Benzylierte Muraminsaure als Glycosylakzeptor - Synthese des GlcNAc-β(1→4)-MurNAc-Disaccharids", <u>Liebigs Ann. Chem.</u> , pp. 789-795 (1989)
	CH	M. Ledvina, et al., "An Alternative Synthesis of O-(2-Acetamido-2-Deoxy-β-D-Glucopyranosyl)-(1→4)-N-Acetylnormuramoyl-L-α-Aminobutanoyl-D-Isoglutamine", <u>Collect. Czech. Chem. Commun.</u> , Vol. 54, pp. 2784-2794 (1989)
	CI	A. Termin, et al., "Synthesis of the GlcNAcβ(1→4)MurNAcβ(1→4)GlcNAcβ(1→4)MurNAc Tetrasaccharide of Bacterial Peptidoglycan", <u>Liebigs Ann. Chem.</u> , pp. 527-533 (1992)
	CJ	P.H. Gross, et al., "Stereochemically Pure Derivatives of Muramic and Isomuramic Acids", <u>Justus Liebigs Ann. Chem.</u> , pp. 37-45 (1986)
	CK	M.P. DeNinno, et al., "A Method for the Selective Reduction of Carbohydrate 4,6-O-Benzylidene Acetals", <u>Tetrahedron Lett.</u> , Vol. 36, pp. 669-672 (1995)
	CL	G-J Ho, et al., "Carbodiimide-Mediated Amide Formation in a Two-Phase System. A High-Yield and Low-Racemization Procedure for Peptide Synthesis", <u>J. Org. Chem.</u> , 60, pp.3569-3570 (1995)
	CM	M. Imoto, "Total Synthesis of <i>Escherichia coli</i> Lipid A, the Endotoxically Active Principle of Cell-Surface Lipopolysaccharide", <u>Bull. Chem. Soc. Jpn.</u> , Vol. 60, pp. 2205-2214 (1987)
	CN	V.T. Ivanov, et al., <u>Immunologiya No. 2</u> , 4-5 (1996)
	CO	I.E. Adrianova, et al., <u>Radiobiologiya</u> , Vol. 32, 566-70 (1992)
	CP	A.M. Palache, et al., "Adjuvancy and reactogenicity of N-acetylglucosaminyl-N-acetylmuramyl-dipeptide (GMDP) orally administered just prior to trivalent influenza subunit vaccine. A double-blind placebo-controlled study in nursing home residents", <u>Vaccine</u> , Vol. 14, pp. 1327-30 (1996)
	CQ	R.M. Khaitov, et al., "Immunotherapy of Infectious Postoperative Complications with Glucosaminyl Dipeptide", <u>Immunotherapy of Infections Ed.</u> , pp. 205-211 (1994)
	CR	H. Brotz, et al., "The Lantibiotic Mersacidin Inhibits Peptidoglycan Synthesis by Targeting Lipid II", <u>Antimicrob. Agents Chemother.</u> , 42, 154-160 (1998)
	CS	Y. Van Heuenoort, et al., "Membrane Intermediates in the Peptidoglycan Metabolism of <i>Escherichia coli</i> : Possible Roles of PBP 1b and PBP 3", <u>J. Bacteriol.</u> , 174 (11), pp. 3549-3557 (1992)
	CT	S. Hitchcock, et al., "The First Total Synthesis of Bacterial Cell Wall Precursor UDP-N-Acetylmuramyl-Pentapeptide (Park Nucleotide)", <u>J. Am. Chem. Soc.</u> , 120, 1916-1917 (1998)
CU	S. Kusumoto, et al., "Synthesis of N-Acetyl-β-D-Glucosaminyl-(1-4)-N-Acetylmuramyl-L-Alanyl-D-Isoglutamine", <u>Tetrahedron Lett.</u> , No. 45, pp. 4407-4410 (1978)	
CV	Whitesides, et al., "Synthesis of Glycosyl Phosphates Using the Fraser-Reid Activation", <u>J. Org. Chem.</u> , Vol. 56, pp. 4547-4549 (1991)	
CW	Sabesan, et al., "Synthesis of glycosyl phosphates and azides", <u>Carbohydr. Res.</u> , Vol. 223, pp. 169-185 (1992)	
CX	C. H. Wong, et al., "Synthesis and Use of Glycosyl Phosphites: An Effective Route to Glycosyl Phosphates, Sugar Nucleotides, and Glycosides", <u>J. Am. Chem. Soc.</u> , 115, pp. 2260-2267 (1993)	

EXAMINER 	DATE CONSIDERED 5-2-03
---	---------------------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

FORM PTO 1449 (modified)		Atty. Docket No. X-13168	Serial No 09/833647
INFORMATION DISCLOSURE CITATION IN AN APPLICATION		Applicant Alborn, et al.	
		Filing Date April 18, 2001	Group 1623
 A vertical line is drawn through the table from the first row to the bottom row, passing through the first column.	CY	J.S. Anderson, et al., "Biosynthesis of the Peptidoglycan of Bacterial Cell Walls," <u>J. Biol. Chem.</u> , 242 (13), pp. 3180-3190 (1967)	
	DA	H.G. Khorana, et al., "The Total Synthesis of Coenzyme A", <u>J. Am. Chem. Soc.</u> , 81, 1265 (1959)	
	DB	H.G. Khorana, et al., "Nucleoside Polyphosphates. The Synthesis and Some Reactions of Nucleoside-5' Phosphoromorpholides and Related Compounds. Improved Methods for the Preparation of Nucleoside-5' Polyphosphates", <u>J. Am. Chem. Soc.</u> , 83, pp. 649-657 (1961)	
	DC	H.G. Khorana, et al., "Nucleoside Polyphosphates. An Improved General Method for the Synthesis of Nucleotide Coenzymes. Syntheses of Uridine-5', Cytidine-5' and Guanosine-5' Diphosphate Derivatives", <u>J. Am. Chem. Soc.</u> , 83, pp. 659-663 (1961)	
	DD	J. Wong, et al., "1H-Tetrazole as Catalyst in Phosphoromorpholidate Coupling Reactions: Efficient Synthesis of GDP-Fucose, GDP-Mannose, and UDP-Galactose", <u>J. Org. Chem.</u> , 62, 2144-2147 (1997)	
	DE	Imperiali, et al., "Synthesis of Dolichylpyrophosphate-Linked Oligosaccharides", <u>Tetrahedron Lett.</u> , 31, pp. 6485-6488 (1990)	
	DF	J. K. Coward, et al., "Synthesis and Evaluation of Synthetic Analogues of Dolichyl-P-P-Chitobiose as Oligosaccharyltransferase Substrates", <u>Biorq. Med. Chem. Lett.</u> , 5, pp. 2701-2706 (1995)	
	DG	R. W. Jeanloz, et al., Chemical Synthesis of Pyrophosphodiester of Carbohydrates and Isoprenoid Alcohols Lipid Intermediates of Bacterial Cell Wall and Antigenic Polysaccharide Biosynthesis", <u>Biochemistry</u> , 11, pp. 2565-2572 (1972)	
	DH	A. R. Battersby, et al., "Studies on Specific Chemical Fission of Peptide Links. Part I. The Rearrangement of Aspartyl and Glutamyl Peptides", <u>J. Chem. Soc.</u> , 259 pp. 259-269 (1955)	
	DI	E. Sondheimer, et al., "Imides from Asparagine and Glutamine. II. Alpha-Aminoglutarimide", <u>J. Am. Chem. Soc.</u> , 79, pp. 3767-3770 (1957)	
	DJ	D. Keglevic, et al., "Synthesis and Reactions of O-acetylated benzyl alpha-glycosides of 6-O(2-acetamido-2-deoxy-beta-D-glucopyranosyl)-N-acetylmuramoyl-L-alanyl-D-isoglutamine esters: The Base-Catalysed Isoglutamine • Glutamine Rearrangement in Peptidoglycan-Related Structures", <u>Carb. Res.</u> , 186, pp. 63-75 (1989)	
	DK	D. Keglevic, et al., "Peptidoglycan-Related Disaccharide-Dipeptides: Differentiation Between Glutamyl and Isoglutamyl Residues by NMR Spectroscopy", <u>J. Carbohydrate Chem.</u> , 11, pp. 119-136 (1992)	
	DL	G. Auger, et al., "Synthesis of an Analogue of the Lipoglycopeptide Membrane Intermediate I of Peptidoglycan Biosynthesis," <u>Letters In Peptide Science</u> , 4, pp. 371-376 (1997)	
DM	B. Schwartz, et al., "Lipid II: Total Synthesis of the Bacterial Cell Wall Precursor and Utilization as a Substrate for Glycosyltransfer and Transpeptidation by Penicillin Binding Protein (PBP) 1b of <i>Eschericia coli</i> ," <u>J. Am. Chem. Soc.</u> , 123, pp. 11638-11643 (2001)		
EXAMINER 		DATE CONSIDERED 5-2-03	
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.			